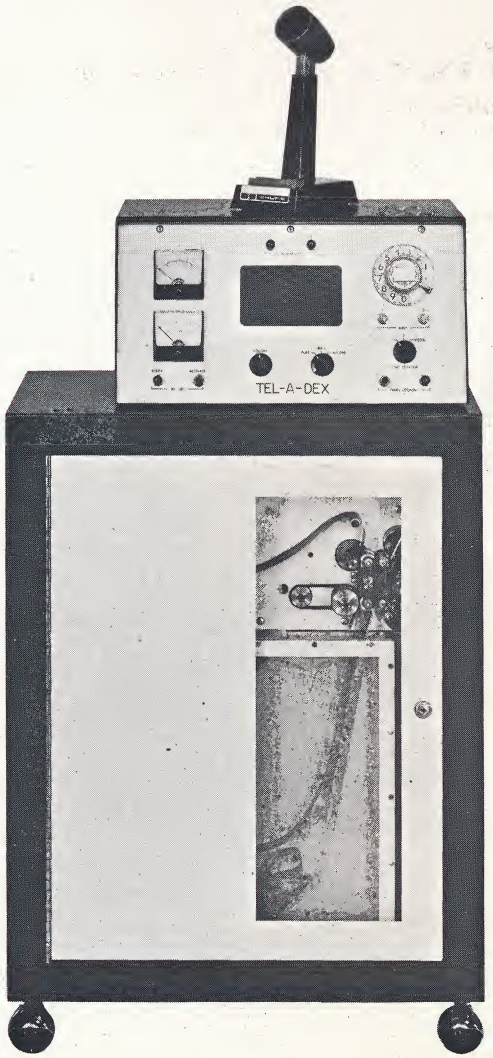
TEL-A-DEX®

COMPUTER–CONTROLLED VOICE ALARM



TEL-A-DEX Corporation now offers a simple method of using the most effective means possible for notifying a process control system operator of alarm conditions—the human voice.

By linking TEL-A-DEX to existing process control systems, alarm printers and annunciator panels can be supplemented or replaced. Instead of a coded message that requires interpretation by the operator, TEL-A-DEX supplies a clear, immediate warning of alarm conditions and then issues proper corrective instructions.

TEL-A-DEX voice-alarm annunciator systems are compatible with all process control computers.

Description: The TEL-A-DEX system includes the basic components of control console and microphone to record messages, and a magnetic tape unit to search and play back these messages. The system is interfaced to the computer by a set of eight output contacts available on the computer. Off-limit and alarm conditions are pre-programmed in a table in computer memory.

Three operational conditions are involved: Standby, address transfer, and read message. Except during the brief periods of address transfer, the TEL-A-DEX system is isolated from the control system.

In standby condition, all output relays are reset (address 000 is not a message) and an open contact in TEL-A-DEX indicates that the system is not in use. Address transfer is initiated when an alarm condition occurs. An eight-bit code designating the message required is output by the computer. This code selects the eight output relays associated with TEL-A-DEX, and these in turn pick the address relays. In the read message state, the computer resets the output relays and triggers a one-shot relay in the interface circuit to initiate tape search and playback. The message is searched in less than 3½ seconds. When the message has been played, the system returns to standby condition. If off-normal points occur at a rate greater than the handling capacity of the TEL-A-DEX system, a computer program stores each set of data and releases the corresponding messages in order of occurrence.

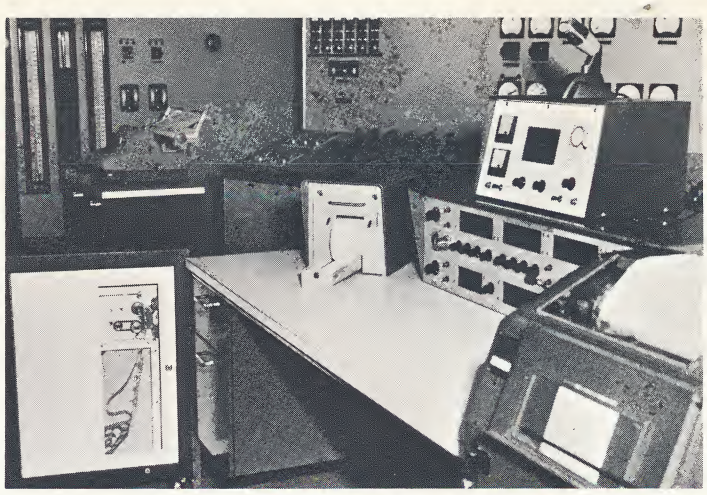
Application: A recent TEL-A-DEX installation provides prerecorded voice-warnings of alarm conditions to the operator of a computer-controlled power generating station. The system uses a digital computer as a central control unit to perform off-normal and limit tests on various inputs from the generating equipment.

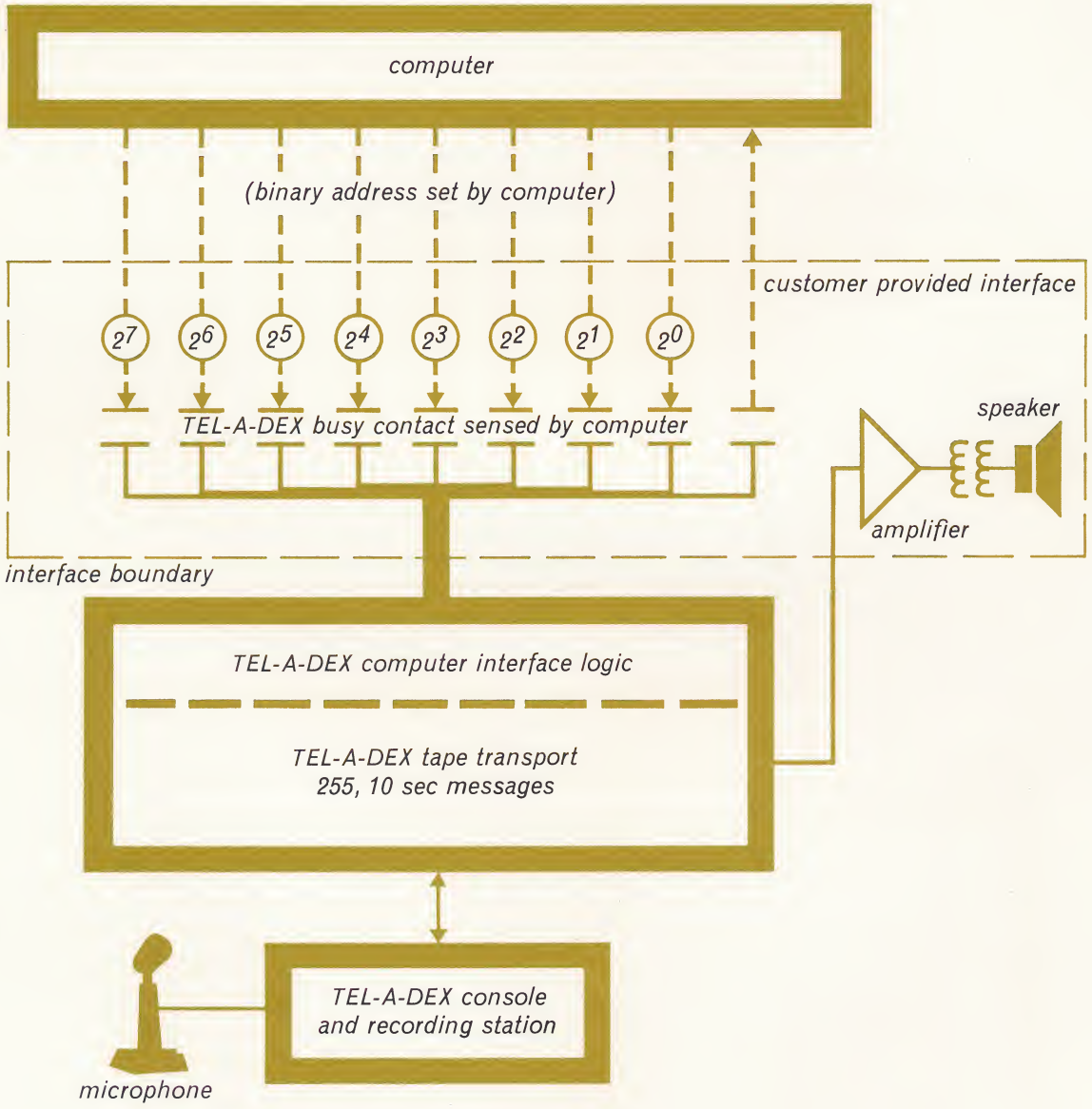
Features: Any type of message—announcement or detailed instruction to suit the user's convenience—can be recorded, simply by dialing a tape address and speaking into the microphone. In the same way, messages can be altered to fit changing requirements. Up to 255 separate messages can be recorded on magnetic tape with ten seconds allowed for each message. Longer or shorter message lengths are available.

Integration of TEL-A-DEX into a process control system offers: *Positive, machine interpretation of alarm signals aids in eliminating possible operator error / No interference with normal operation / Saving of critical time in emergencies / Simplicity of programming.*

Specifications:

Inputs:	On-Line (from computer): eight form-A contact closures Off-Line: control console telephone dial of three digits
Outputs:	Sufficient to drive a speaker when used in a public environment
Messages:	255 maximum, ten seconds each
Duty Cycle:	Continuous-unattended
Access Time:	3.5 seconds maximum
Power:	117 VAC, 60 cps, single phase Power consumption approximately 250 watts
Dimensions:	Tape unit: 23″ wide, 29″ high, and 12″ deep Control Console: 17″ wide, 9″ high, and 10″ deep



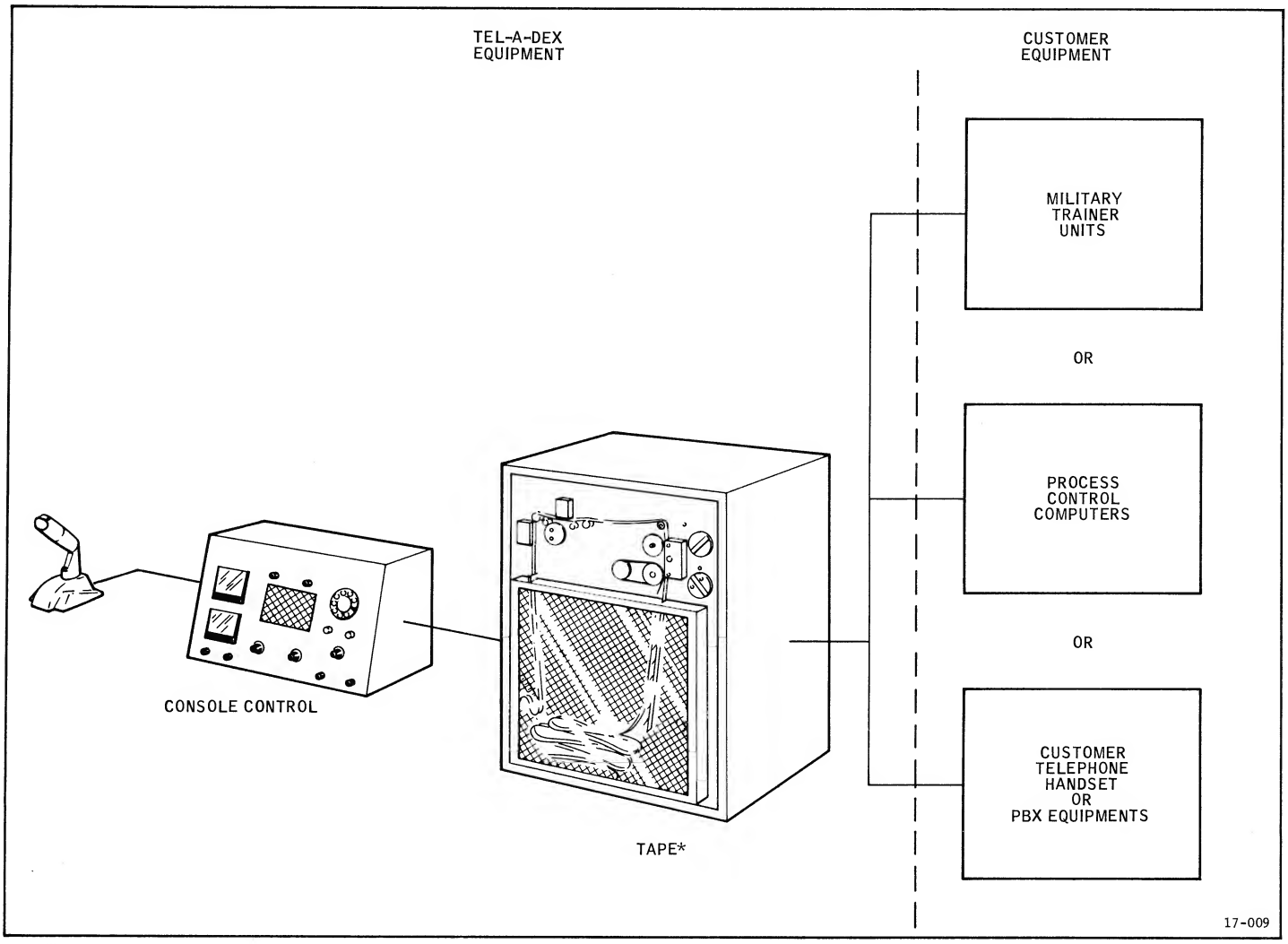


Please call your local TEL-A-DEX representative or write:

TEL-A-DEX CORPORATION
600 East Bonita Avenue
Pomona, California 91767

TEL-A-DEX CORPORATION is a wholly-owned subsidiary of Consolidated Systems Corporation, an associate company of Allis-Chalmers and Bell & Howell.

TEL-A-DEX®



COMPUTER INTERFACE
STANDARD MODEL 120

INTERCONNECTING CABLE REQUIREMENTS

A. Parallel Address Interface
14 Conductors Required:
1 thru 8 Relay Addressing Contacts
9 & 10 Tel-A-Dex Busy Line to Trainer
11 & 12 Control Signal to Tel-A-Dex
13 & 14 Audio Output from Tel-A-Dex to Trainer (500 ohm nominal)

B. Telephone Dial Interface
7 Conductors Required

Bulletin 601

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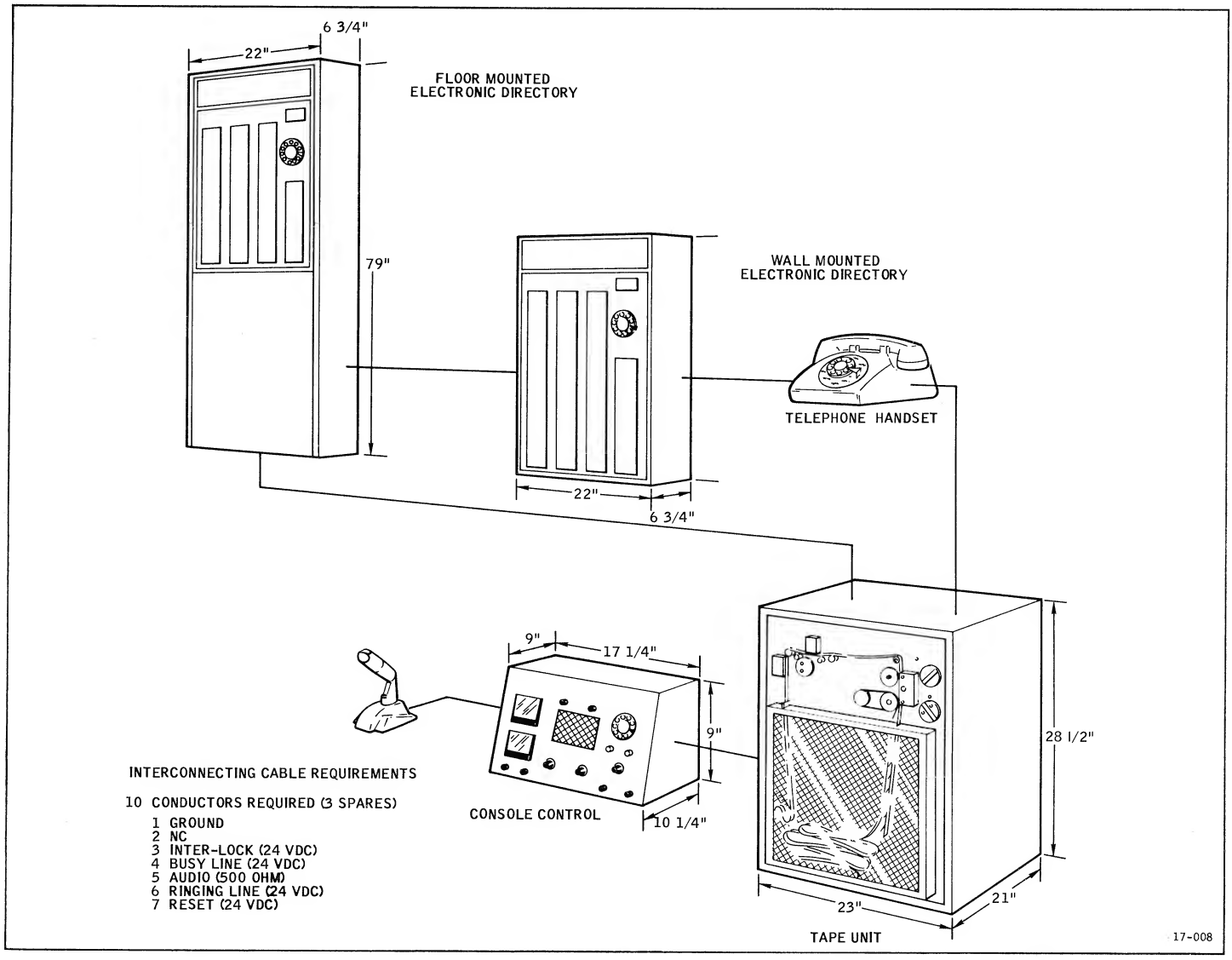

STANDARD SYSTEM MODEL 101

SYSTEM OPTIONS

1. Up to eight information access stations:
   a. Floor Mounted Electronic Directories
   b. Wall Mounted Electronic Directories
   c. Telephone Handsets and Printed Directories
2. Simultaneous Erase and Record.
3. Color and material of electronic directories.
4. Parallel Play: Information accessed at one access station is played back at all access stations simultaneously.
5. Message Length: Eight seconds to three minutes for 256 messages to 16 messages.
6. Illuminated customer identification panels.

Bulletin 501

TEL-A-DEX CORPORATION
600 East Bonita Avenue
Pomona, California 91767

TEL-A-DEX CORPORATION

9 December 1964

Mr. T. Nelson
Systems Consultant
Box 1546
Poughkeepsie, New York

Dear Mr. Nelson:

Thank you for your interest in Tel-A-Dex. Enclosed is a reprint of an ELECTRONIC NEWS article on Tel-A-Dex, together with the information you requested. We hope the enclosures will prove helpful to you and we will be pleased to discuss your specific requirements in detail.

If you have any further questions, or desire additional information, you may contact this office directly, or our representative in your area. By copy of this letter, we are advising your local representative of your interest in Tel-A-Dex.

Sincerely,

TEL-A-DEX CORPORATION

Fred E. Benoit/cp

Fred E. Benoit
Marketing

FEB/cp

Enclosures: Bulletins 201, 501, 601 and reprints from POWER MAGAZINE and ELECTRONIC NEWS

cc:
Brogan Associates, Inc.
80 Urban Avenue
Westbury, New York